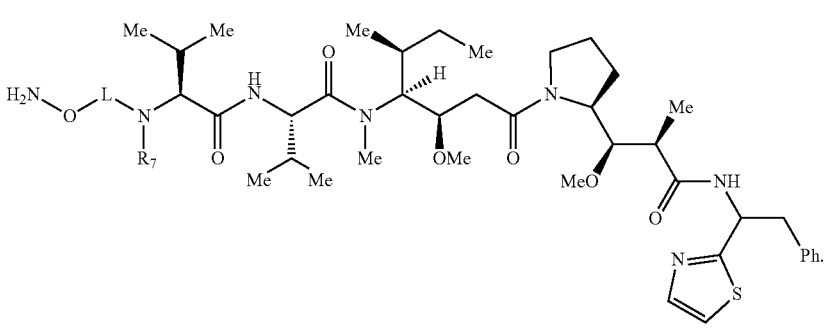
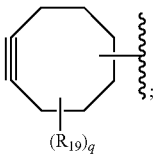
[0018] In some embodiments, a compound is described comprising Formula (II):



(II)

In certain embodiments, L is -(alkylene-O)$_n$-alkylene-. In specific embodiments, each alkylene is —CH_2CH_2—, n is equal to 3, and R_7 is methyl. In other embodiments, L is -alkylene-. In specific embodiments, each alkylene is —CH_2CH_2— and R_7 is methyl or hydrogen. In certain embodiments, L is -(alkylene-O)$_n$-alkylene-C(O)—. In certain specific embodiments, each alkylene is —CH_2CH_2, n is equal to 4, and R_7 is methyl. In further or alternative embodiments, L is -(alkylene-O)$_n$—$(CH_2)_n$—NHC(O)—$(CH_2)_{n''}$—$C(Me)_2$-S—S—$(CH_2)_{n'''}$—NHC(O)-(alkylene-O-)$_{n'}$-alkylene-. In specific embodiments, each alkylene is —CH_2CH_2—, n is equal to 1, n' is equal to 2, n'' is equal to 1, n is equal to 2, n'''' is equal to 4, and R_7 is methyl.

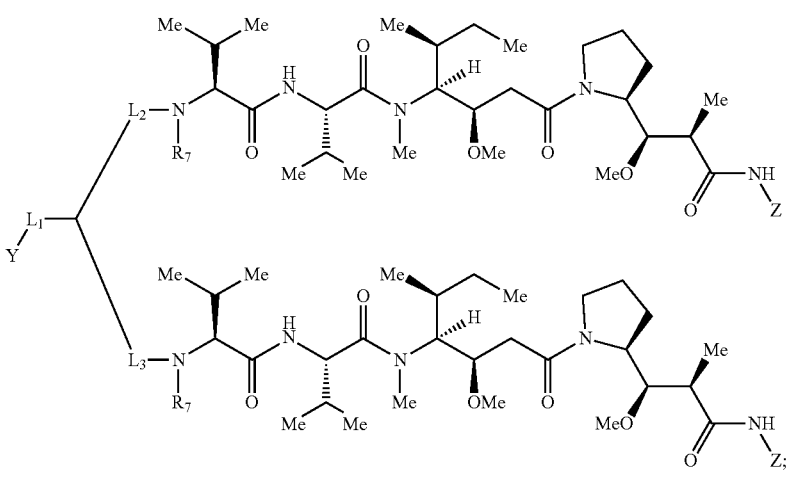
[0019] In some embodiments, Y is azide. In other embodiments, Y is cyclooctyne. In specific embodiments, the cyclooctyne has a structure of:



[0020] each R_{19} is independently selected from the group consisting of C_1-C_6 alkyl, C_1-C_6 alkoxy, ester, ether, thioether, aminoalkyl, halogen, alkyl ester, aryl ester, amide, aryl amide, alkyl halide, alkyl amine, alkyl sulfonic acid, alkyl nitro, thioester, sulfonyl ester, halosulfonyl, nitrile, alkyl nitrile, and nitro; and

[0021] q is 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or 11.

[0022] Some embodiments of the present invention describe a compound, or salt thereof, comprising Formula (III), (IV), (V) or (VI):



(III)